



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

December 30, 2003

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

TO: Interested Parties / Applicant

RE: CTS Corporation / 039-18220-00063

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER-AM.dot 9/16/03



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Mr. Paul Daiber
CTS Corporation
1142 W. Beardsley Avenue
Elkhart, Indiana 46514

Re: 039-18220
Notice-only change to
Registration No. 039-10761-00063

Dear Mr. Daiber:

CTS Corporation was issued a registration on July 21, 1999 for an electronic components manufacturing operation. A letter notifying the Office of Air Quality of the changes listed below was received on November 13, 2003. Pursuant to the provisions of 326 IAC 2-5.5-6(d) the registration is hereby revised as follows:

The contact person for the source has been changed from Mr. Milan Vuchenich to Mr. Paul Daiber, Plant Manager.

An assembly area is being added to the first floor of the plant. Since the new assembly area is replacing part of the existing assembly process and emissions from the new assembly area are negligible, as was determined for the existing assembly area, the new assembly area is being added as a notice-only change to the registration. There are now two (2) assembly areas at this source.

Although the emission calculations for the parts washers in the original registration were based on the correct maximum total solvent usage for all parts washers at this source, the registration incorrectly lists only two (2) cold cleaner degreasers. There are eight (8) cold cleaner degreasers with a total maximum solvent usage of 1.02 pounds per hour.

Since the addition of the new assembly area results in an emission increase that is less than the levels specified in 326 IAC 2-1.1-3(d)(1) (Exemptions), the registration is hereby revised as follows, pursuant to the provisions of 326 IAC 2-5.5-6(d)(12) (with new language bolded and old language stricken):

The following descriptive information has been revised:

- (b) ~~Two (2)~~ **Eight (8)** cold cleaner degreasers, with a total maximum solvent usage rate of 1.02 pounds per hour and exhaustsing to the atmosphere.
- (i) ~~One (1)~~ **Two (2)** assembly areas.

Condition 7 of the registration has been revised so that paragraphs (c) and (d) have been removed because they are repetitive of paragraphs (a) and (b) and are unnecessary.

- 7. Pursuant to 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control), the following shall apply:

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) the solvent volatility is greater than two (2) kilo-Pascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) the solvent is agitated; or
 - (C) the solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kilo-Pascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

- (c) ~~Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:~~
- (1) ~~Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:~~
 - (A) ~~the solvent volatility is greater than two (2) kilo-Pascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));~~
 - (B) ~~the solvent is agitated; or~~
 - (C) ~~the solvent is heated.~~
 - (2) ~~Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kilo-Pascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.~~
 - (3) ~~Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).~~
 - (4) ~~The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.~~
 - (5) ~~Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):~~
 - (A) ~~A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.~~
 - (B) ~~A water cover when solvent is used is insoluble in, and heavier than, water.~~
 - (C) ~~Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.~~
- (d) ~~Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:~~
- (1) ~~Close the cover whenever articles are not being handled in the degreaser.~~
 - (2) ~~Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.~~
 - (3) ~~Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.~~

All other conditions of the permit shall remain unchanged and in effect.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Trish Earls, at (973) 575-2555, ext. 3219 or dial (800) 451-6027, and ask for extension 3-6878.

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments
TE/EVP

cc: File – Elkhart County
U.S. EPA, Region V
Elkhart County Health Department
Northwest Regional Office
Air Compliance Section Inspector - Paul Karkiewicz
Compliance Data Section - Karen Ambil
Administrative and Development
Technical Support and Modeling - Michelle Boner



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Mr. Paul Daiber
CTS Corporation
1142 W. Beardsley Avenue
Elkhart, Indiana 46514

Re: 039-18220-00063
Revision Registration to
Registration No. 039-10761-00063

Dear Mr. Daiber:

The application from CTS Corporation, received on November 13, 2003, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.5-6(d), it has been determined that the registration for the electronic components manufacturing operation, located at 1142 W. Beardsley Avenue, Elkhart, Indiana, 46514, Indiana, is hereby revised as follows:

- (a) Two (2) natural gas-fired boilers, designated as Boilers #1 and #2 and exhaust to stacks designated as #1 and #2. Boiler #1 has a maximum heat input capacity of 15.1 mmBtu/hr and Boiler #2 has a maximum heat input capacity of 14.7 mmBtu/hr.
- (b) Eight (8) cold cleaner degreasers, with a total maximum solvent usage rate of 1.02 pounds per hour and exhausting to the atmosphere.
- (c) One (1) solder machine which exhausts to the atmosphere.
- (d) Four (4) mechanical punch presses, utilized for stamping out piece parts and exhausts to the atmosphere.
- (e) Four (4) mechanical punch presses, utilized to test dies and exhausts to the atmosphere.
- (f) Five (5) mechanical punch presses, utilized for stamping out elements and exhausts to the atmosphere.
- (g) Three (3) hydraulic punch presses with a closed loop pump system, utilized for stamping out elements and exhausts to the atmosphere.
- (h) One (1) molding area.
- (i) Two (2) assembly areas.
- (j) Two (2) electric kilns which exhaust through vents designated as #7 and #8.
- (k) Sixteen (16) electric ovens which exhaust through points designated as #3 - #6.

The following conditions shall be applicable:

1. Pursuant to 326 IAC 1-6-3 (Preventive Maintenance), the following shall apply:

- (a) The Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission units;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
 - (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.
 - (c) PMP's shall be submitted to IDEM, OAQ upon request and shall be subject to review and approval by IDEM and OAQ.
2. Pursuant to 326 IAC 2-6 (Emission Reporting), the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15 of each year and contain the minimum requirements as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year).
3. Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following:
 - (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.
4. Pursuant to 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating) the particulate matter (PM) emissions shall be limited by the following equation:
$$Pt = (C \cdot a \cdot h) / (76.5 \cdot Q^{0.75} \cdot N^{0.25})$$

Where; Pt = Pounds of Particulate Matter emitted per million Btu (lb/mmBtu) heat input.
Q = Total source maximum operating capacity rating in million Btu per hour (mmBtu/hr) heat input.
C = Maximum ground level concentration with respect to distance from the point source at "critical" wind speed for level terrain. This shall equal 50 micrograms per cubic meter for a period not to exceed a sixty (60) minute time period.
N = Number of stacks in fuel burning operation.
a = Plume rise factor which is used to make allowances for less than theoretical plume rise. The value 0.8 shall be used for Q greater than 1,000 MMBtu/hr heat input.
h = Stack height in feet.
5. Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emissions of the solder machine shall not exceed 0.551 pounds per hour.

6. Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Operation), the owner or operator of a cold cleaning facility shall:
 - (a) equip the cleaner with a cover;
 - (b) equip the cleaner with a facility for draining cleaned parts;
 - (c) close the degreaser cover whenever parts are not being handled in the cleaner;
 - (d) drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (e) provide a permanent, conspicuous label summarizing the operating requirements;
 - (f) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.
7. Pursuant to 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control), the following shall apply:
 - (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) the solvent volatility is greater than two (2) kilo-Pascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) the solvent is agitated; or
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 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

- (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

This registration supersedes any previous air approvals issued to this source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.5-4(a)(3). The annual notice shall be submitted to:

**Compliance Data Section
Office of Air Quality
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015**

no later than March 1 of each year, with the annual notice being submitted in the format attached.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Original signed by Paul Dubenetzky
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

TE/EVP

cc: File – Elkhart County
Elkhart County Health Department
Northwest Regional Office
Air Compliance Section Inspector - Paul Karkiewicz
Permit Tracking
Air Programs Section- Michelle Boner

Registration Annual Notification

This form should be used to comply with the notification requirements under 326 IAC 2-5.5-4(a)(3)

Company Name:	CTS Corporation
Address:	1142 W. Beardsley Avenue
City:	Elkhart, Indiana 46514
Authorized individual:	Paul Daiber
Phone #:	574-295-3575
Registration #:	039-10761-00063

I hereby certify that CTS Corporation is still in operation and is in compliance with the requirements of Registration **039-10761-00063**.

Name (typed):
Title:
Signature:
Date: